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10/085,786

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US006849740B2

(12) **United States Patent**
Ledoussal et al.(10) **Patent No.: US 6,849,740 B2**
(45) **Date of Patent: *Feb. 1, 2005**

- (54) **ANTIMICROBIAL QUINOLONES, THEIR COMPOSITIONS AND USES**
- (75) **Inventors:** Benoit Ledoussal, Mason, OH (US); Ji-In Kim Almstead, Holmdel, NJ (US); Jeffrey Lyle Gray, Loveland, OH (US)
- (73) **Assignee:** The Procter & Gamble Company, Cincinnati, OH (US)
- (*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

- (21) **Appl. No.:** 10/392,476
- (22) **Filed:** Mar. 18, 2003
- (65) **Prior Publication Data**
- US 2003/0207862 A1 Nov. 6, 2003

Related U.S. Application Data

- (63) Continuation of application No. 10/085,786, filed on Feb. 28, 2002, now abandoned, which is a continuation of application No. 09/929,943, filed on Aug. 15, 2001, now Pat. No. 6,387,928, which is a continuation-in-part of application No. 09/266,197, filed on Mar. 10, 1999, now Pat. No. 6,329,391, which is a continuation-in-part of application No. 09/139,859, filed on Aug. 25, 1998, now abandoned
- (60) Provisional application No. 60/058,891, filed on Sep. 15, 1997.
- (51) **Int. Cl.⁷** A61K 31/47; C07D 215/16
- (52) **U.S. Cl.** 546/156; 514/312
- (58) **Field of Search** 546/156; 514/312

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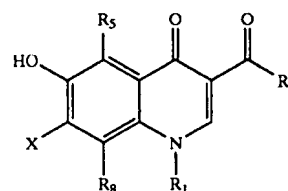
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(57) **ABSTRACT**

Compounds having the general structure



which are effective antimicrobial agents.

19 Claims, No Drawings